

CLAIMS

1. A process of preparing multiphase toilet soap, characterized by comprising the following steps:

a- adding, in sequence, the components:

- 5 i – base toilet-soap mass, opacifying agent and chelating agent,
 ii – at least one surfactant and emollient,
 iii – a chelating agent; and
 iv – essence and anti-oxidizing agent,

10 in a turned-on Mixer (1), at intervals of at least 10 minutes between the additions of each of the above groups (i) to (iv);

 b- mixing for a period of time sufficient to achieve total homogenization of the components;

 c – introducing the mixture obtained in step b- in a roller mill according to a rolling velocity until homogenization is achieved;

15 d- transferring, on conveyor belts, the rolled mass to an Extruder (9) and extruding it once through the preliminary Trafila (8);

 e- during the preparation of the extruded mass of the opaque phase, adding a translucent phase by means of a conveyor belt that acts as a dosing equipment (6);

20 f- introducing the mixture containing the opaque and translucent phases in a final Trafila (7), at a temperature ranging from 60 to 80°C, at a velocity adequate for obtaining a homogeneous and constant product;

 g- introducing the extruded mass obtained in step f- in a cutter (not shown);

25 h- molding the extruded and cut mass in a press.

2. A process of preparing multiphase toilet soap according to claim 1, characterized by comprising the additional step of removing the trims present on the molded toilet soap and re-using them by means of a continuous process with conveyor belts that transfer the trims to the Extruder (1).

30 3. A process of preparing multiphase toilet soap according to claim 1, characterized in that the translucent phase is prepared according to the following steps:

a- adding the base toilet-soap mass, moisturizing agent, emollient agent and chelating agent in a Mixer (1) and mixing for a period of time sufficient to achieve total homogenization of the components;

b- introducing the mixture obtained in step a- in an Extruder (2)
5 and extruding it once through a Trafila (3) and returning to the Mixer (1);

c- adding at least one translucency promoting agent and a chelating agent in the Mixer (1) and mixing for a period of time sufficient to achieve total homogenization of the components;

d- introducing the mixture obtained in step c- in the Extruder (2)
10 and extruding it once through the Trafila (3) and returning to the Mixer (1);

e- heating at least one translucency promoting agent other than the translucency promoting agent(s) added in step c-, at a temperature of 50°C and adding this partial composition in the Mixer (1) and mixing for about at least 15 minutes;

f- adding at least one translucency promoting agent other than the translucency promoting agent(s) added in step e- in the Mixer (1); mixing this partial composition for about 40 minutes or until total homogenization of the components is achieved and the composition takes on the translucent appearance;

g- introducing the mixture obtained in step f- in the Extruder (2)
20 and extruding it once through the Trafila (3) and returning to the Mixer (1);

h- adding essence and dyestuffs in the Mixer (1) and mixing this partial composition for a period of time sufficient to achieve total homogenization of the components of this phase, as well as stabilization of the Beta crystalline structure;
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i- introducing the mixture obtained in step f- in the Extruder (2);

j- cutting the bars into noodles (4) of about 3,0 to 5.0 cm in length.

4. A process of preparing multiphase toilet soap according to any one of claims 1 to 3, characterized in that the mixer (1) is a mixer of the Sigma G. Mazzoni type.
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5. A process of preparing multiphase toilet soap according to any

one of claims 1 to 4, characterized in that the extruder (2) is of the Mazonni type.

5 6. A process of preparing multiphase toilet soap according to any one of claims 1 to 5, characterized in that the extruder (9) is of the Mazzonio type.

7. A process of preparing multiphase toilet soap according to any one of claims 1 to 6, characterized in that at least one active is added to the composition.

10 8. A process according to claim 1, characterized in that, in the step (e), more than one translucent phase is added to the opaque mass that is being extruded.

9. Multiphase toilet soap characterized by being prepared according to the process as defined in any claims 1 to 8.